lab5

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Chapter 1

Hierarchical Index

1.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

Library 12
ExternalLibrary 7
InternalLibrary 9
Reader 12
ExternalReader 8
InternalReader 10

Chapter 2

Class Index

2.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

ExternalLibrary 7
ExternalReader 8
InternalLibrary 9
InternalReader 10
Library 12
Reader 12

Chapter 3

File Index

3.1 File List

Here is a list of all files with brief descriptions:

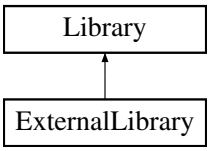
D://main.cpp 15

Chapter 4

Class Documentation

4.1 ExternalLibrary Class Reference

Inheritance diagram for ExternalLibrary:



Public Member Functions

- std::string getJournalList () override
- std::string downloadArticle (std::string articleId) override

- virtual std::string getJournalList ()=0
- virtual std::string downloadArticle (std::string articleId)=0

4.1.1 Member Function Documentation

4.1.1.1 downloadArticle()

```
std::string ExternalLibrary::downloadArticle (
            std::string articleId )  [inline], [override], [virtual]
```

Implements Library.

4.1.1.2 getJournalList()

```
std::string ExternalLibrary::getJournalList ( )  [inline], [override], [virtual]
```

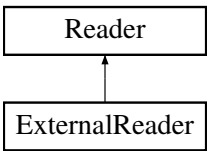
Implements Library.

The documentation for this class was generated from the following file:

- D://main.cpp

4.2 ExternalReader Class Reference

Inheritance diagram for ExternalReader:



Public Member Functions

- ExternalReader ()
- ~ExternalReader ()
- std::string getAccessLevel () override
- std::string getJournalList () override
- std::string downloadArticle (std::string articleId) override

- virtual std::string getAccessLevel ()=0
- virtual std::string getJournalList ()=0
- virtual std::string downloadArticle (std::string articleId)=0

4.2.1 Constructor & Destructor Documentation

4.2.1.1 ExternalReader()

```
ExternalReader::ExternalReader ( )  [inline]
```

4.2.1.2 ~ExternalReader()

```
ExternalReader::~ExternalReader ( )  [inline]
```

4.2.2 Member Function Documentation

4.2.2.1 downloadArticle()

```
std::string ExternalReader::downloadArticle (
            std::string articleId )  [inline], [override], [virtual]
```

Implements Reader.

4.2.2.2 getAccessLevel()

```
std::string ExternalReader::getAccessLevel ( )  [inline], [override], [virtual]
```

Implements Reader.

4.2.2.3 getJournalList()

```
std::string ExternalReader::getJournalList ( )  [inline], [override], [virtual]
```

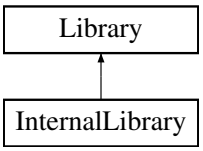
Implements Reader.

The documentation for this class was generated from the following file:

- D://main.cpp

4.3 InternalLibrary Class Reference

Inheritance diagram for InternalLibrary:



Public Member Functions

- std::string getJournalList () override
- std::string downloadArticle (std::string articleId) override

- virtual std::string getJournalList ()=0
- virtual std::string downloadArticle (std::string articleId)=0

4.3.1 Member Function Documentation

4.3.1.1 downloadArticle()

```
std::string InternalLibrary::downloadArticle (
            std::string articleId )  [inline], [override], [virtual]
```

Implements Library.

4.3.1.2 getJournalList()

```
std::string InternalLibrary::getJournalList ( )  [inline], [override], [virtual]
```

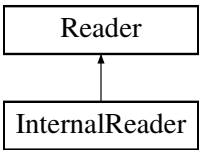
Implements Library.

The documentation for this class was generated from the following file:

- D://main.cpp

4.4 InternalReader Class Reference

Inheritance diagram for InternalReader:



Public Member Functions

- InternalReader ()
- ~InternalReader ()
- std::string getAccessLevel () override
- std::string getJournalList () override
- std::string downloadArticle (std::string articleId) override

- virtual std::string getAccessLevel ()=0
- virtual std::string getJournalList ()=0
- virtual std::string downloadArticle (std::string articleId)=0

4.4.1 Constructor & Destructor Documentation

4.4.1.1 InternalReader()

```
InternalReader::InternalReader ( )  [inline]
```

4.4.1.2 ~InternalReader()

```
InternalReader::~InternalReader ( )  [inline]
```

4.4.2 Member Function Documentation

4.4.2.1 downloadArticle()

```
std::string InternalReader::downloadArticle (
            std::string articleId )  [inline], [override], [virtual]
```

Implements Reader.

4.4.2.2 getAccessLevel()

```
std::string InternalReader::getAccessLevel ( )  [inline], [override], [virtual]
```

Implements Reader.

4.4.2.3 getJournalList()

```
std::string InternalReader::getJournalList ( )  [inline], [override], [virtual]
```

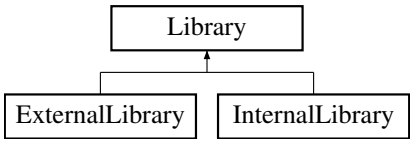
Implements Reader.

The documentation for this class was generated from the following file:

- D://main.cpp

4.5 Library Class Reference

Inheritance diagram for Library:



Public Member Functions

- virtual std::string getJournalList ()=0
- virtual std::string downloadArticle (std::string articleId)=0

4.5.1 Member Function Documentation

4.5.1.1 downloadArticle()

```
virtual std::string Library::downloadArticle (
            std::string articleId )  [pure virtual]
```

Implemented in InternalLibrary, and ExternalLibrary.

4.5.1.2 getJournalList()

```
virtual std::string Library::getJournalList ( )  [pure virtual]
```

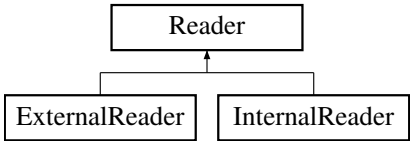
Implemented in InternalLibrary, and ExternalLibrary.

The documentation for this class was generated from the following file:

- D://main.cpp

4.6 Reader Class Reference

Inheritance diagram for Reader:



Public Member Functions

- virtual std::string getAccessLevel ()=0
- virtual std::string getJournalList ()=0
- virtual std::string downloadArticle (std::string articleId)=0

4.6.1 Member Function Documentation

4.6.1.1 downloadArticle()

```
virtual std::string Reader::downloadArticle (
            std::string articleId )  [pure virtual]
```

Implemented in InternalReader, and ExternalReader.

4.6.1.2 getAccessLevel()

```
virtual std::string Reader::getAccessLevel ( )  [pure virtual]
```

Implemented in InternalReader, and ExternalReader.

4.6.1.3 getJournalList()

```
virtual std::string Reader::getJournalList ( )  [pure virtual]
```

Implemented in InternalReader, and ExternalReader.

The documentation for this class was generated from the following file:

- D://main.cpp

Chapter 5

File Documentation

5.1 D://main.cpp File Reference

```
#include <iostream>
#include <string>
```

Classes

- class Library
- class InternalLibrary
- class ExternalLibrary
- class Reader
- class InternalReader
- class ExternalReader

Functions

- int main ()

5.1.1 Function Documentation

5.1.1.1 main()

```
int main ( )
```

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